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37th Annual Meeting. APS Division of Plasma Physics 6-10 November 1995, Louisville, KY Abstract Submittal Form

Deadline: Friday, 7 July 1995

Subject Classification Catagory 7.4 X-ray Lasers (refer to the DPP Catagory list in APS Meeting News) Theory X Experiment		
	Foils*, R. Cauble, T. W. E. Decker, R. A. London, J. G. F. Weber, <i>Lawrence Liverm</i> — We have employed an yttrinterferometry of short (1 selenium foils. Using this t electron density profile of the Se foil plasma reveals evide spot of the optical laser profile also evident in the Y plasma gain in yttrium, we also see may be caused by temperobservation may imply a limproduced x-ray laser in the a	Gerometry of Exploding X-ray Laser Barbee Jr, P. Celliers, L. B. Da Silva, C. C. Moreno, J. E. Trebes, A. S. Wan and the sore National Laboratory, Livermore, CA rium x-ray laser to perform end-on 155 Å 2 mm long) laser-exploded yttium and echnique we are able to measure the 2D ecreated plasma. Density variations in the ence of intensity fluctuations in the focal ducing the plasma. Density variations are large variations in the gain profile, which rature differences in the plasma. This nit on the coherence obtainable by a laser-bsence of optical beam smoothing. The auspices of the U. S. Department of fact number W-7405-ENG-48
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X	Prefer Oral Session	
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	Following A. S. Wan	Robert Cauble (Same Name Typewritten)
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